

March 11, 2015

City of Hanford  
Attn: April Engen-Garza  
900 S.10th Ave.  
Hanford, CA 93230

**Subject: Subcontract Analysis for FGL Lab No. VI 1540615**

Enclosed please find results for the following sample(s) which were received by FGL.

- Dioxin - LR by EPA 8280A 2,3,7,8,-TCDD

Please note that this analysis was performed by Vista Analytical Laboratory

Thank you for using FGL Environmental.

Sincerely,

**Cindy Aguirre**  Digitally signed by Cindy Aguirre  
Title: Customer Service Rep  
Date: 2015-03-11

Enclosure

March 11, 2015

**Vista Project I.D.: 1500206**

Ms. Cindy Aguirre  
FGL Environmental, Inc.  
853 Corporation St.  
Santa Paula, CA 93060-3005

Dear Ms. Aguirre,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on February 25, 2015. This sample set was analyzed on a standard turn-around time, under your Project Name '1540615-(4-15877)'. The work was authorized under your Purchase Order No. 1540615-(4-15877).

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at [mmaier@vista-analytical.com](mailto:mmaier@vista-analytical.com).

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier  
Laboratory Director



*Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.*

Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 ph: 916-673-1520 fx: 916-673-0106 [www.vista-analytical.com](http://www.vista-analytical.com)

**Vista Work Order No. 1500206**

**Case Narrative**

**Sample Condition on Receipt:**

One sludge sample was received in good condition and within the method temperature requirements. The sample was received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

**Analytical Notes:**

**EPA Method 1613**

This sample was extracted and analyzed for 2,3,7,8-TCDD by EPA Method 1613 using a ZB-5MS GC column.

**Holding Times**

The sample was extracted and analyzed within the method hold times.

**Quality Control**

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

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# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1500206-01	Sludge Stockpile	24-Feb-15 10:20	25-Feb-15 09:55	Clear Glass Jar, 250mL

## **ANALYTICAL RESULTS**

Sample ID: Method Blank						EPA Method 8280A				
Matrix: Solid Sample Size: 5.00 g			QC Batch: B5C0011 Date Extracted: 04-Mar-2015 12:53			Lab Sample: B5C0011-BLK1 Date Analyzed : 06-Mar-15 17:11 Column: ZB-5MS Analyst: MAS				
Analyte	Conc. (ng/g )	RL	DL	EMPC	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.400	0.00172			IS	13C-2,3,7,8-TCDD	85.3	31 - 137	
						CRS	37Cl-2,3,7,8-TCDD	89.6	37 - 158	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration
RL - Reporting limit

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: OPR					EPA Method 8280A			
Matrix: Solid		QC Batch: B5C0011			Lab Sample: B5C0011-BS1			
Sample Size: 5.00 g		Date Extracted: 04-Mar-2015 12:53			Date Analyzed: 06-Mar-15 15:33 Column: ZB-5MS Analyst: MAS			
Analyte	Amt Found (ng/g )	Spike Amt	%R	Limits	Labeled Standard		%R	LCL-UCL
2,3,7,8-TCDD	0.188	0.200	94.2	70 - 130	IS	13C-2,3,7,8-TCDD	87.3	31 - 137
					CRS	37Cl-2,3,7,8-TCDD	91.7	37 - 158

LCL-UCL - Lower control limit - upper control limit

Sample ID: Sludge Stockpile						EPA Method 8280A				
<b>Client Data</b> Name: FGL Environmental, Inc. Project: 1540615-(4-15877) Date Collected: 24-Feb-2015 10:20			<b>Sample Data</b> Matrix: Sludge Sample Size: 8.34 g % Solids: 60.9			<b>Laboratory Data</b> Lab Sample: 1500206-01      Date Received: 25-Feb-2015 9:55 QC Batch: B5C0011      Date Extracted: 04-Mar-2015 12:53 Date Analyzed : 06-Mar-15 22:04    Column: ZB-5MS    Analyst: MAS				
Analyte	Conc. (ng/g )	RL	DL	EMPC	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.394	0.00508			IS	13C-2,3,7,8-TCDD	78.2	31 - 137	
						CRS	37Cl-2,3,7,8-TCDD	81.7	37 - 158	

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

RL - Reporting limit

LCL-UCL- Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.

## **DATA QUALIFIERS & ABBREVIATIONS**

<b>B</b>	<b>This compound was also detected in the method blank.</b>
<b>D</b>	<b>Dilution</b>
<b>E</b>	<b>The amount detected is above the High Calibration Limit.</b>
<b>H</b>	<b>Recovery was outside laboratory acceptance limits.</b>
<b>I</b>	<b>Chemical Interference</b>
<b>J</b>	<b>The amount detected is below the Low Calibration Limit.</b>
<b>P</b>	<b>The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.</b>
<b>*</b>	<b>See Cover Letter</b>
<b>Conc.</b>	<b>Concentration</b>
<b>DL</b>	<b>Sample-specific estimated detection limit</b>
<b>MDL</b>	<b>Method Detection Limit as determined by 40 CFR 136, Appendix B.</b>
<b>EMPC</b>	<b>Estimated Maximum Possible Concentration</b>
<b>M</b>	<b>Estimated Maximum Possible Concentration (CA Region 2)</b>
<b>NA</b>	<b>Not applicable</b>
<b>RL</b>	<b>Reporting Limit – concentrations that correspond to low calibration point</b>
<b>ND</b>	<b>Not Detected</b>
<b>TEQ</b>	<b>Toxic Equivalency</b>

**Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.**

## **CERTIFICATIONS**

<b>Accrediting Authority</b>	<b>Certificate Number</b>
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Michigan Department of Natural Resources	9932
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
North Carolina Department of Health & Human Services	06700
Oregon Laboratory Accreditation Program	4042-003
Pennsylvania Department of Environmental Protection	011
South Carolina Department of Health	87002001
Tennessee Department of Environment & Conservation	TN02996
Texas Commission on Environmental Quality	T104704189-15-6
Virginia Department of General Services	3138
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Annual Subcontract to  
Vista Analytical Laboratory

Laboratory Copy (1 of 3)

Client: <b>Fruit Growers Laboratory, Inc.</b> Address: FGL Environmental, Inc. 853 Corporation St. Santa Paula, CA 93060-3005 Phone: (805)392-2039 Fax: (805)525-6264 Contact Person: Project Name: <u>1540615</u> - (4-15877) Purchase Order Number: Quote Number: <u>VI20071009_01</u>				40524:10/13/2014				TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information																								
Sampler(s) <u>neilgessup</u>				Method of Sampling: Composite(C) Grab(G) Type of Sample **SEE REVERSE SIDE** Potable(P) Non-Potable(NP) Ag Water(AgW) Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) Dioxin - LR by EPA 8280A 2,3,7,8,-TCDD 8oz(G)				1500206 5.9°C																								
Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: ____/____/____ Time: ____/____																																
Lab Number: <u>VI 1540615</u>																																
Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling	Type of Sample	Potable(P)	Non-Potable(NP)	Ag Water(AgW)	Bacti Type	Other(O)	System(SYS)	Source(SR)	Waste(W)	Bacti Reason	Routine(ROUT)	Repeat(RPT)	Replace(RPL)	Other(O)	Special(SPL)	Dioxin - LR by EPA 8280A 2,3,7,8,-TCDD	8oz(G)											
1	Sludge Stockpile	2/24/15	1020	G	Slg																1											
Remarks: NOTE: Please notify SP Bacti Lab prior to sampling				Relinquished				Date: 2/24/15				Time: 1730				Relinquished				Date:				Time:								
				Received By: <u>neilgessup</u>				Date: 2/24/15				Time: 1730				Received By: <u>On Trac</u>				Date:				Time:								
				Received By: <u>On Trac</u>				Date: 2/24/15				Time: 1730				Received By: <u>Beth W. Spindler</u>				Date: 02/25/15				Time: 0959								
				Received By:				Date:				Time:				Received By:				Date:				Time:								

**Corporate Offices & Laboratory**  
853 Corporation Street  
Santa Paula, CA 93060  
Phone: (805) 392-2000  
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063  
Project 1500206

**Office & Laboratory**  
2500 Stagecoach Road  
Stockton, CA 95215  
Phone: (209) 942-0182  
Fax: (209) 942-0423

**Office & Laboratory**  
563 E. Lindo  
Chico, CA 95926  
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**Office & Laboratory**  
3442 Empresa Drive, Suite D  
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**Office & Laboratory**  
9415 W. Goshen Avenue  
Visalia, CA 93291  
Phone: (559) 734-9473  
Fax: (559) 734-8435

# SAMPLE LOG-IN CHECKLIST



Vista Project #:

1500206

TAT

Std

Samples Arrival:	Date/Time		Initials:	Location:		
	02/25/15 0955		BSB	WR-2		
Logged In:	Date/Time		Initials:	Location:		
	02/25/15 1418		BSB	WR-2		
Delivered By:	FedEx	UPS	On Trac	DHL	Hand Delivered	Other
Preservation:	Ice		Blue Ice	Dry Ice	None	
Temp °C:	5.8	(uncorrected)	Time: 0959	Thermometer ID: IR-1		
Temp °C:	5.9	(corrected)				

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?				✓
Shipping Documentation Present?		✓		
Airbill	Trk # B10302605997	✓		
Sample Container Intact?		✓		
Sample Custody Seals Intact?				✓
Chain of Custody / Sample Documentation Present?		✓		
COC Anomaly/Sample Acceptance Form completed?			✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				✓
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Preservation Documented?	NA	COC	Sample Container	None
Shipping Container	Vista	Client	Retain	Return
				Dispose

Comments:

April 1, 2015

City of Hanford  
Attn: April Engen-Garza  
900 S.10th Ave.  
Hanford, CA 93230

**Subject: Amended Subcontract Analysis for FGL Lab No. VI 1540615**

Enclosed please find results for the following sample(s) which were received by FGL.

- Sub Contracted - EPA 8082 (Amended to correct Total Solids result.)

Please note that this analysis was performed by Babcock Laboratories, Inc. (ELAP Certified Laboratory)

Thank you for using FGL Environmental.

Sincerely,

**Cindy Aguirre**  Digitally signed by Cindy Aguirre  
Title: Customer Service Rep  
Date: 2015-04-01

Enclosure

**Corporate Offices & Laboratory**

853 Corporation Street  
Santa Paula, CA 93060  
TEL: (805)392-2000  
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063  
CA ELAP Certification No. 1573

**Office & Laboratory**

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FAX: (209)942-0423  
CA ELAP Certification No. 1563

**Office & Laboratory**

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9415 W. Goshen Avenue  
Visalia, CA 93291  
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FAX: (559)734-8435  
CA ELAP Certification No. 2810  
DENALI\_001594



**BABCOCK Laboratories, Inc.**  
*The Standard of Excellence for Over 100 Years*

Client Name: FGL Environmental, Inc.  
Contact: Cindy Aguirre  
Address: 853 Corporation Street  
Santa Paula, CA 93060

Analytical Report: Page 1 of 5  
Project Name: No Project  
Project Number: 1540615- (4-15877)

Report Date: 31-Mar-2015

**Work Order Number: B5B2411**

Received on Ice (Y/N): Yes Temp: 9 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

### Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
B5B2411-01	1540615 - (4-15877) 1 Sludge Stockpile Grab	Sludge	02/24/15 10:20	Neil Jessup	02/25/15 10:05	Ontrac

**Note:**

**As per client request, the analysis for Total Solid was redone. Although all batches met the quality control acceptance criteria of the laboratory, the original result could not be duplicated. The retest result was confirmed by a duplicate and the result of the retest appears on this report.  
This report supersedes the report issued on 04-Mar-2015.**



**BABCOCK Laboratories, Inc.**  
*The Standard of Excellence for Over 100 Years*

Client Name: FGL Environmental, Inc.  
Contact: Cindy Aguirre  
Address: 853 Corporation Street  
Santa Paula, CA 93060

Analytical Report: Page 2 of 5  
Project Name: No Project  
Project Number: 1540615- (4-15877)

Report Date: 31-Mar-2015

**Work Order Number: B5B2411**

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number  
**B5B2411-01**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
1540615 - (4-15877) 1 Sludge Stockpile	Sludge	02/24/15 10:20	02/25/15 10:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Solids							
Total Solids	55	0.10	%	SM 2540G	03/26/15 12:45	cdcs	N_HTa
Organochlorine Pesticides and PCBs by EPA 8000 Series							
Aroclor 1016	ND	54000	ug/kg dry	EPA 8082	03/02/15 18:03	sbart	
Aroclor 1221	ND	54000	ug/kg dry	EPA 8082	03/02/15 18:03	sbart	
Aroclor 1232	ND	54000	ug/kg dry	EPA 8082	03/02/15 18:03	sbart	
Aroclor 1242	ND	54000	ug/kg dry	EPA 8082	03/02/15 18:03	sbart	
Aroclor 1248	ND	54000	ug/kg dry	EPA 8082	03/02/15 18:03	sbart	
Aroclor 1254	ND	54000	ug/kg dry	EPA 8082	03/02/15 18:03	sbart	
Aroclor 1260	ND	54000	ug/kg dry	EPA 8082	03/02/15 18:03	sbart	
Surrogate: Decachlorobiphenyl	84.8	% 10-158		EPA 8082	03/02/15 18:03	sbart	

*mailing*  
P.O. Box 432  
Riverside, CA 92502-0432

*location*  
6100 Quail Valley Court  
Riverside, CA 92507-0704

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CA ELAP No. 2698  
EPA no. CA00102  
LACSD No., 10119  
DENALI\_001596



**BABCOCK Laboratories, Inc.**  
*The Standard of Excellence for Over 100 Years*

Client Name: FGL Environmental, Inc.  
Contact: Cindy Aguirre  
Address: 853 Corporation Street  
Santa Paula, CA 93060

Analytical Report: Page 3 of 5  
Project Name: No Project  
Project Number: 1540615- (4-15877)

Report Date: 31-Mar-2015

**Work Order Number: B5B2411**

Received on Ice (Y/N): Yes Temp: 9 °C

**Solids - Batch Quality Control**

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch 5C26029 - Analyzed as received</b>										
<b>Blank (5C26029-BLK1)</b>				Prepared & Analyzed: 03/26/15						
Total Solids	ND	0.10	%							
<b>Duplicate (5C26029-DUP1)</b>				<b>Source: B5C2518-01</b> Prepared & Analyzed: 03/26/15						
Total Solids	6.8	0.10	%		6.6			2.99	25	
<b>Duplicate (5C26029-DUP2)</b>				<b>Source: B5C2607-01</b> Prepared & Analyzed: 03/26/15						
Total Solids	2.1	0.10	%		2.1			0.00	25	



**BABCOCK Laboratories, Inc.**  
*The Standard of Excellence for Over 100 Years*

Client Name: FGL Environmental, Inc.  
 Contact: Cindy Aguirre  
 Address: 853 Corporation Street  
 Santa Paula, CA 93060

Analytical Report: Page 4 of 5  
 Project Name: No Project  
 Project Number: 1540615- (4-15877)

Report Date: 31-Mar-2015

**Work Order Number: B5B2411**

Received on Ice (Y/N): Yes Temp: 9 °C

**Organochlorine Pesticides and PCBs by EPA 8000 Series - Batch Quality Control**

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch 5B26038 - EPA 3550B</b>										
<b>Blank (5B26038-BLK1)</b>										
Prepared: 02/26/15 Analyzed: 03/02/15										
Aroclor 1016	ND	1000	ug/kg wet							
Aroclor 1221	ND	1000	ug/kg wet							
Aroclor 1232	ND	1000	ug/kg wet							
Aroclor 1242	ND	1000	ug/kg wet							
Aroclor 1248	ND	1000	ug/kg wet							
Aroclor 1254	ND	1000	ug/kg wet							
Aroclor 1260	ND	1000	ug/kg wet							
Surrogate: Decachlorobiphenyl	381		ug/kg wet	400		95.2	10-158			
<b>LCS (5B26038-BS1)</b>										
Prepared: 02/26/15 Analyzed: 03/02/15										
Aroclor 1016	1580	1000	ug/kg wet	2000		79.1	47.8-122			
Aroclor 1260	1710	1000	ug/kg wet	2000		85.3	48.3-127			
Surrogate: Decachlorobiphenyl	385		ug/kg wet	400		96.3	10-158			
<b>LCS Dup (5B26038-BSD1)</b>										
Prepared: 02/26/15 Analyzed: 03/02/15										
Aroclor 1016	1530	1000	ug/kg wet	2000		76.5	47.8-122	3.28	20	
Aroclor 1260	1570	1000	ug/kg wet	2000		78.6	48.3-127	8.11	20	
Surrogate: Decachlorobiphenyl	350		ug/kg wet	400		87.5	10-158			
<b>Matrix Spike (5B26038-MS1)</b>										
Source: B5B2411-01 Prepared: 02/26/15 Analyzed: 03/02/15										
Aroclor 1016	102000	54000	ug/kg dry	108000	ND	94.5	23-195			
Aroclor 1260	112000	54000	ug/kg dry	108000	ND	103	13.5-134			
Surrogate: Decachlorobiphenyl	20800		ug/kg dry	21600		96.2	10-158			
<b>Matrix Spike Dup (5B26038-MSD1)</b>										
Source: B5B2411-01 Prepared: 02/26/15 Analyzed: 03/02/15										
Aroclor 1016	77700	54000	ug/kg dry	108000	ND	71.8	23-195	27.2	42	
Aroclor 1260	96900	54000	ug/kg dry	108000	ND	89.7	13.5-134	14.3	32	
Surrogate: Decachlorobiphenyl	19500		ug/kg dry	21600		90.3	10-158			

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 P.O. Box 432  
 Riverside, CA 92502-0432

*location*  
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 Riverside, CA 92507-0704

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CA ELAP No. 2698  
 EPA no. CA00102  
 LACSD No., 10119  
 DENALI\_001598

Client Name: FGL Environmental, Inc.  
Contact: Cindy Aguirre  
Address: 853 Corporation Street  
Santa Paula, CA 93060

Analytical Report: Page 5 of 5  
Project Name: No Project  
Project Number: 1540615- (4-15877)

Report Date: 31-Mar-2015

**Work Order Number: B5B2411**

Received on Ice (Y/N): Yes Temp: 9 °C

## Notes and Definitions

N\_HTa Sample analyzed outside of the EPA recommended holding time.

ND: Analyte NOT DETECTED at or above the Method Detection Limit (**if MDL is reported**), otherwise at or above the Reportable Detection Limit (RDL)

NR: Not Reported

RDL: Reportable Detection Limit

MDL: Method Detection Limit

\* / " : NELAP does not offer accreditation for this analyte/method/matrix combination

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## Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

---

cc:

*mailing*  
P.O. Box 432  
Riverside, CA 92502-0432

*location*  
6100 Quail Valley Court  
Riverside, CA 92507-0704

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[www.babcocklabs.com](http://www.babcocklabs.com)

e-Standard.rpt  
CA ELAP No. 2698  
EPA no. CA00102  
LACSD No., 10119  
DENALI\_001599



Analytical Report: Page 1 of 1  
Project Name: No Project  
Project Number: 1540615- (4-15877)

**Work Order Number: B5B2411**

Received on Ice (Y/N): Yes Temp: 9 °C

[illegible]

CA ELAP No. 2698  
EPA no. CA00102  
LACSD No., 10119

DENALI 001600

April 8, 2015

City of Hanford  
Attn: April Engen-Garza  
900 S.10th Ave.  
Hanford, CA 93230

**Subject: Subcontract Analyses for FGL Lab No. VI 1540615**

Enclosed please find results for the following sample(s) which were received by FGL.

- Sub Bacti-Enteric Virus
- Sub Contracted-% Solids
- Sub Bacti-Helminth Ova

Please note that this analysis was performed by Biovir Labs (ELAP Certified Laboratory)

Thank you for using FGL Environmental.

Sincerely,

**Cindy Aguirre**  Digitally signed by Cindy Aguirre  
Title: Customer Service Rep  
Date: 2015-04-08

Enclosure



## BioVir Laboratories

EPA ID# 01401, CA-ELAP #179

685 Stone Road, Unit 6 • Benicia, CA 94510 • (707) 747-5906 • 1-800-GIARDIA • FAX (707) 747-1751 • WEB: www.biovir.com

**REPORT NO.:** 150272  
**PAGE NO.:** 1 of 2  
**CLIENT:** FGL Environmental - Visalia  
**ADDRESS:** 3935 W. Victor Avenue  
Visalia, CA 93277-7088  
**CLIENT NO** FGL002 **CLIENT PO:**

### ASSAY RESULTS:

**Test:** Enteric Virus

**Method:** ASTM D 4994-89

BioVir #	Sample ID	Site	Analyte	Result	Units
150272-001	1540615-(4-15877)	Sludge StockPile	Enteric Virus	<1	pfu/4 g TS

Collector: N. Jessup CollectDate: 2/24/2015 CollectTime: 10:20:00 AM  
ReceiveDate 2/25/2015 8:05:00 AM Matrix: Biosoilds Temp 8.8C  
Volume: 1034.8 g Analysis Start Date: 2/25/2015 Analysis Start Time: 1700  
Analyst: ValentinaL Analysis End: 3/12/2015

Comment:

**Test:** Helminth Ova

**Method:**

BioVir #	Sample ID	Site	Analyte	Result	Units
150272-001	1540615-(4-15877)	Sludge StockPile	Viable Helminth Ova	<1	Viable Ova /4 g TS

Collector: N. Jessup CollectDate: 2/24/2015 CollectTime: 10:20:00 AM  
ReceiveDate 2/25/2015 8:05:00 AM Matrix: Biosoilds Temp 8.8C  
Volume: 1034.8 g Analysis Start Date: 3/2/2015 Analysis Start Time: 0950  
Analyst: SMullaney Analysis End: 4/2/2015

Comment:

**Test:** Total Solids

**Method:**

BioVir #	Sample ID	Site	Analyte	Result	Units
----------	-----------	------	---------	--------	-------

DENALI\_001602

REPORT NO.: 150272  
PAGE NO.: 2 of 2  
CLIENT: FGL Environmental - Visalia  
ADDRESS 3935 W. Victor Avenue  
Visalia, CA 93277-7088  
CLIENT NO FGL002 CLIENT PO:

ASSAY RESULTS:

Test: Total Solids Method:

BioVir #	Sample ID	Site	Analyte	Result	Units
150272-001	1540615-(4-15877)	Sludge StockPile	Total Solids (%)	61.0	% Total Solids
Collector: N. Jessup CollectDate: 2/24/2015 CollectTime: 10:20:00 AM					
ReceiveDate 2/25/2015 8:05:00 AM Matrix: Biosolids Temp 8.8C					
Volume: 1034.8 g Analysis Start Date: 2/25/2015 Analysis Start Time: 1700					
Analyst: MPhilbrook Analysis End: 2/26/2015					

Comment:

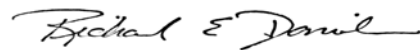
SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. BioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.

COMPANY IS NOT AN INSURER: BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or disposed.

MAINTENANCE OF RECORDS: BioVir Laboratories, Inc. shall maintain records pertaining to the historical reconstruction of client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that date unless a written client's request for records transfer is received by BioVir which requests otherwise. Records transfer or storage charges may apply after the 5 year period. THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF BIOVIR LABORATORIES, INC.

4/8/2015

Date:



Signature

Quality  
Checked EMoran

1008+8-1  
FG-1002

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*www.fglinc.com*

**TEST DESCRIPTION** - See Reverse side for Container, Preservative and Sampling information

1 da. (cc) 107-0400

1034.8g  
88.8°C

3-8029/ass

Relinquished	Date: 2/24/15	Time: 1730
Received By: Karlene	Date: /	Time:

Received By:	Date:	Time:	Received By:	Date:	Time:
Contrac	2/24/15	1730	M Campbell	2/25/15	0805

mm-2: 25.75

Relinquished	Date:	Time:
Received By:	Date:	Time:

### Corporate Offices & Laboratory

853 Corporation Street  
Santa Paula, CA 93060  
Phone: (805) 392-2000  
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

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Fax: (209) 942-0423

Office &amp; Laboratory

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Chico, CA 95926  
Phone: (530) 343-5818  
Fax: (530) 343-3807

Office &amp; Laboratory

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San Luis Obispo, CA 93  
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Fax: (805) 783-2912

Office &amp; Laboratory

9415 W. Goshen Avenue  
Visalia, CA 93291  
Phone: (559) 734-9473  
Fax: (559) 734-8435

April 9, 2015

City of Hanford  
Attn: April Engen-Garza  
900 S.10th Ave.  
Hanford, CA 93230

**Subject: Subcontract Analysis for FGL Lab No. VI 1540615**

Enclosed please find results for the following sample(s) which were received by FGL.

- Sub Bacti-Salmonella

Please note that this analysis was performed by Sierra Environmental Monitoring (ELAP Certified Laboratory)

Thank you for using FGL Environmental.

Sincerely,

**Cindy Aguirre**  Digitally signed by Cindy Aguirre  
Title: Customer Service Rep  
Date: 2015-04-09

Enclosure

**Corporate Offices & Laboratory**

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Santa Paula, CA 93060  
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CA ELAP Certification No. 1573

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CA ELAP Certification No. 1563

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FAX: (530)343-3807  
CA ELAP Certification No. 2670

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FAX: (805)783-2912  
CA ELAP Certification No. 2775

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Visalia, CA 93291  
TEL: (559)734-9473  
FAX: (559)734-8435  
CA ELAP Certification No. 2810  
DENALI\_001605

## Laboratory Report

Report ID: 140196



Sierra  
Environmental  
Monitoring, Inc.

Fruit Growers Laboratory, Inc.  
Attn: Cindy Aguirre  
853 Corporation Street  
Santa Paula, CA 93060

Date: 4/7/2015  
Client: FGL-212  
Taken by: N. Jessup  
PO #:

Dear Cindy Aguirre,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15 and NV-921) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

### General Comments:

- There are no general comments for this report.

### Individual Sample Comments:

- There are no specific comments that are associated with these samples.

Approved By:

Date:

4/7/2015

Sierra Environmental Monitoring, Inc.

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

**Laboratory Report**  
**Report ID: 140196**



**Sierra  
Environmental  
Monitoring, Inc.**

Fruit Growers Laboratory, Inc.  
Attn: Cindy Aguirre  
853 Corporation Street  
Santa Paula, CA 93060

Date: 4/7/2015  
Client: FGL-212  
Taken by: N. Jessup  
PO #:

***Analysis Report***

**Laboratory Accreditation Number:** ELAP 2526

Laboratory Sample ID	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S201502-0947	1540615-(4-15877)-1 - Sludge Stockpile	2/24/2015	10:20 AM	2/25/2015

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Moisture Content	SM 2540 G	38	%	0.1	Kobza	4/2/2015	
Salmonella	SM 9260 B	<3	MPN/4g	3	Mott	2/27/2015	

***Data Flag Legend:***

## Laboratory Report

Report ID: 140196



Sierra  
Environmental  
Monitoring, Inc.

Fruit Growers Laboratory, Inc.  
Attn: Cindy Aguirre  
853 Corporation Street  
Santa Paula, CA 93060

Date: 4/7/2015  
Client: FGL-212  
Taken by: N. Jessup  
PO #:

### Quality Control Report

Parameter	LCS, % Recovery	MS, % Recovery	MSD, % Recovery	RPD, %	Method Blank
-----------	--------------------	-------------------	--------------------	--------	--------------

Sierra Environmental Monitoring collected no QC data for report 140196.

<b>Legend:</b>	<i>LCS- Laboratory Control Standard</i>	<i>MS- Matrix Spike</i>	<i>MSD- Matrix Spike Duplicate</i>
	<i>RPD- Relative Percent Difference</i>		

440196  
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Laboratory Copy (1 of 3)

[www.jgarc.com](http://www.jgarc.com)

**TEST DESCRIPTION** - See Reverse side for Container, Preservative and Sampling information

**Fax: (559) 734-8435**

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**TEST DESCRIPTION** - See Reverse side for Container, Preservative and Sampling information

**Fax: (559) 734-8435**



Client: <b>Fruit Growers Laboratory, Inc.</b> Address: FGL Environmental, Inc. 853 Corporation St. Santa Paula, CA 93060-3005  Phone: (805)392-2039 Fax: (805)525-6264 Contact Person: Project Name: <u>1540615</u> - (4-15877) Purchase Order Number: Quote Number: <u>VI20071009_01</u>  Sampler(s) <u>Neil Jessup</u>  Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: <u>1/1/15</u> Time: <u>1/1/15</u>  Lab Number: <u>VI 1540615</u>				40524:10/13/2014		TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information														
				Method of Sampling: Composite(C) Grab(G)  Type of Sample **SEE REVERSE SIDE** Potable(P) Non-Potable(NP) Ag Water(AgW) Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) Sub Contracted - EPA 8082 8oz(G)																
Samp Num	Location Description	Date Sampled	Time Sampled																	
1	Sludge Stockpile	2/24/15	1020	G	Slg															
Remarks: NOTE: Please notify SP Bacti Lab prior to sampling				Relinquished		Date:	Time:	Relinquished		Date:	Time:	Relinquished		Date:	Time:					
				<u>Neil Jessup</u> Received By:		Date:	Time:	<u>Neil Jessup</u> Received By:		Date:	Time:	<u>Neil Jessup</u> Received By:		Date:	Time:					
				<u>On trac</u>		Date:	Time:			Date:	Time:			Date:	Time:					

**Corporate Offices & Laboratory**  
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 Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

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 Fax: (209) 942-0423

**Office & Laboratory**  
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 Fax: (530) 343-3807

**Office & Laboratory**  
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 Fax: (805) 783-2912

**Office & Laboratory**  
 9415 W. Goshen Avenue  
 Visalia, CA 93291  
 Phone: (559) 734-9473  
 Fax: (559) 734-8435

**Annual Subcontract to  
Biovir Labs**

Customer Copy (2 of 3)

<b>Client:</b> Fruit Growers Laboratory, Inc. <b>Address:</b> FGL Environmental, Inc. 853 Corporation St. Santa Paula, CA 93060-3005  <b>Phone:</b> (805)392-2039 <b>Fax:</b> (805)525-6264 <b>Contact Person:</b> <b>Project Name:</b> <u>1540615</u> - (4-15877) <b>Purchase Order Number:</b> <b>Quote Number:</b> VI20071009_01				40524:10/13/2014		TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information													
<b>Sampler(s)</b> <u>Neil Jessup</u>  <b>Sampling Fee:</b> _____ <b>Pickup Fee:</b> _____ <b>Compositor Setup Date:</b> ____/____/____ <b>Time:</b> ____/____				<b>Method of Sampling:</b> Composite(C) Grab(G)  <b>Type of Sample</b> **SEE REVERSE SIDE** Potable(P) Non-Potable(NP) Ag Water(AgW) Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) Sub Bacti-Enteric Virus 8oz(G) Sub Contracted-% Solids 8oz(G) Sub Bacti-Helminth Ova 8oz(G)-Na2S2O3															
<b>Lab Number:</b>																			
Samp Num	Location Description	Date Sampled	Time Sampled																
1	Sludge Stockpile	2/24/15	1030	G	Slg														
<b>Remarks:</b> NOTE: Please notify SP Bacti Lab prior to sampling				Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:	
				Received By: <u>Neil Jessup</u> Date: <u>2/24/15</u> Time: <u>1730</u>		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:	

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 Visalia, CA 93291  
 Phone: (559) 734-9473  
 Fax: (559) 734-8435

Annual Subcontract to  
Sierra Environmental Monitoring

<b>Client:</b> Fruit Growers Laboratory, Inc. <b>Address:</b> FGL Environmental, Inc. 853 Corporation St. Santa Paula, CA 93060-3005  <b>Phone:</b> (805)392-2039 <b>Fax:</b> (805)525-6264 <b>Contact Person:</b> <b>Project Name:</b> <u>1540615</u> - (4-15877) <b>Purchase Order Number:</b> <b>Quote Number:</b> VI20071009_01  <b>Sampler(s)</b> <u>Neil Jessup</u>  <b>Sampling Fee:</b> _____ <b>Pickup Fee:</b> _____ <b>Compositor Setup Date:</b> ___/___/___ <b>Time:</b> ___/___  <b>Lab Number:</b> <u>VI 1540615</u>				40524:10/13/2014		TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information														
				Method of Sampling: Composite(C) Grab(G)  Type of Sample: **SEE REVERSE SIDE**  Potable(P) Non-Potable(NP) Ag Water(AgW)  Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)  Sub Bacti-Salmonella 8oz(G)-Na2S2O3																
Samp Num	Location Description	Date Sampled	Time Sampled																	
1	Sludge Stockpile	2/24/15	1020	G	Slg															
<b>Remarks:</b> NOTE: Please notify SP Bacti Lab prior to sampling				Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		
				Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		
				Neil Jessup      2/24/15      1730																
				Outrac      2/24/15      1730																

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 Visalia, CA 93291  
 Phone: (559) 734-9473  
 Fax: (559) 734-8435



## Annual Subcontract to Vista Analytical Laboratory

**CHAIN OF CUSTODY**  
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Customer Copy (2 of 3)

<b>Client:</b> Fruit Growers Laboratory, Inc. <b>Address:</b> FGL Environmental, Inc. 853 Corporation St. Santa Paula, CA 93060-3005  <b>Phone:</b> (805)392-2039 <b>Fax:</b> (805)525-6264 <b>Contact Person:</b> <b>Project Name:</b> <u>1540615</u> - (4-15877) <b>Purchase Order Number:</b> <b>Quote Number:</b> VI20071009_01  <b>Sampler(s)</b> <u>Neil Jessup</u>  <b>Sampling Fee:</b> _____ <b>Pickup Fee:</b> _____ <b>Compositor Setup Date:</b> ____/____/____ <b>Time:</b> ____/____ <b>Lab Number:</b> <u>VI 1540615</u>				40524:10/13/2014		TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information												
				Method of Sampling: Composite(C) Grab(G)  Type of Sample: **SEE REVERSE SIDE** Potable(P) Non-Potable(NP) Ag Water(AgW) Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) Dioxin - LR by EPA 8280A 2,3,7,8-TCDD 8oz(G)														
Samp Num	Location Description	Date Sampled	Time Sampled															
1	Sludge Stockpile	2/24/15	1020	G	Slg													
<b>Remarks:</b> NOTE: Please notify SP Bacti Lab prior to sampling				Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		Relinquished      Date:      Time:		
				Received By: <u>Neil Jessup</u> Date: <u>2/24/15</u> Time: <u>1730</u>		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		Received By:      Date:      Time:		

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 Visalia, CA 93291  
 Phone: (559) 734-9473  
 Fax: (559) 734-8435

### Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # FS

2. Were samples received in a chilled condition? Temps: 10°C /        /        /        /         
Surface water SWTR bact samples: A sample that has a temperature upon receipt of  $>10^{\circ}\text{C}$ , whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

- |   |     |    |     |
|---|-----|----|-----|
| 3. Do the number of bottles received agree with the COC?              | Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | Yes | No |     |
| 5. VOAs checked for Headspace?  | Yes | No | N/A |
| 6. Were sample custody seals intact?                                  | Yes | No | N/A |
| 7. If required, was sample split for pH analysis?                     | Yes | No | N/A |
| 8. Were all analyses within holding times at time of receipt?         | Yes | No |     |
| 9. Verify sample date, time and sampler name                          | Yes | No |     |

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): ny

#### Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps:        /        /        /        /         
Acceptable is above freezing to  $6^{\circ}\text{C}$ . If many packages are received at one time check for tests/H.T.'s/rashes/

2. Shipping tracking numbers:

- |   |     |    |     |
|---|-----|----|-----|
| 3. Do the number of bottles received agree with the COC?              | Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | Yes | No |     |
| 5. Were sample custody seals intact?                                  | Yes | No | N/A |

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

#### Sample Verification, Labeling and Distribution:

- |   |     |    |         |
|---|-----|----|---------|
| 1. Were all requested analyses understood and acceptable?   | Yes | No |         |
| 2. Did bottle labels correspond with the client's ID's?   | Yes | No |         |
| 3. Were all bottles requiring sample preservation properly preserved?<br><small>[Exception: Oil &amp; Grease, VOA and CrVI verified in lab]</small> | Yes | No | N/A FGL |
| 4. VOAs checked for Headspace?  | Yes | No | N/A     |
| 5. Have rush or project due dates been checked and accepted?  | Yes | No | N/A     |
| 6. Were all analyses within holding times at time of receipt?   | Yes | No |         |

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials):       

#### Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

- |                                    |                             |
|------------------------------------|-----------------------------|
| 1. Person Contacted: <u>      </u> | Phone Number: <u>      </u> |
| Initiated By: <u>      </u>        | Date: <u>      </u>         |
| Problem: <u>      </u>             |                             |
| Resolution: <u>      </u>          |                             |
|                                    |                             |
| 2. Person Contacted: <u>      </u> | Phone Number: <u>      </u> |
| Initiated By: <u>      </u>        | Date: <u>      </u>         |
| Problem: <u>      </u>             |                             |
| Resolution: <u>      </u>          |                             |

(Please use the back of this sheet for additional comments or contacts)

Hanford WWTP  
0 VI 1540615  
**Attach label with lab number h**  
Sediment Monitoring